

Appln. of: Schreiber
Serial No.: 10/733,363
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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A protective ring for a fan protective casing of a gas turbine engine, comprising a penetration sleeve having an alternation of several, interconnected strata, each comprising a metal band and a polymer-impregnated fiber-weave layer; wherein opposite circumferential ends of each respective metal band circumferentially overlap one another and respective ones of the fiber-weave layers extend between the circumferentially overlapped ends of adjacent metal bands.

2. (Original) A protective ring in accordance with Claim 1, wherein the polymer-impregnated fiber-weave layers comprise at least one of glass fibers, polyethylene fibers, polyamide fibers, aramide fibers and carbon fibers impregnated with at least one of polyester and highly energy-absorbing resins, and the metal bands are constructed of at least one of aluminum, titanium and nickel base alloy.

3. (Original) A protective ring in accordance with Claim 2, wherein at least one of polyamide and polyethylene fibers known under the trade names KEVLAR and DYNEEMA, respectively, are included in the fiber-weave layers.

4. (Original) A protective ring in accordance with Claim 3, wherein both an inner and outer circumferential surface are each formed by a metal band.

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5. (Original) A protective ring in accordance with Claim 4, wherein multi-stratum strips of metal bands and fiber-weave layers are joined at the ends by an adhesive to form the protective ring.

6. (Cancelled)

7. (Currently Amended) A protective ring in accordance with Claim 56, comprising at least two penetration sleeves with matching diameters assembled into one another to obtain a specific large wall thickness.

8. (Original) A protective ring in accordance with Claim 1, wherein multi-ply strips of metal bands and polymer-bonded fiber-weave layers are wound spirally to obtain a protective ring of sufficient wall thickness.

9. (Original) A protective ring in accordance with Claim 1, having sufficiently large wall thickness to act as a full containment.

10. (Original) A protective ring in accordance with Claim 1, comprising a trapping layer of fiber material positioned outside the penetration sleeve for arresting breakthrough of fan blade fragments.

11. (Original) A protective ring in accordance with Claim 1, comprising outer and inner bands constructed of sheet metal and at least one metallic intermediate band constructed of a

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metal weave of at least one of nickel, titanium, iron and aluminum.

12. (Original) A protective ring in accordance with Claim 1, wherein the fiber layers are wound and comprising two outer flanges being conformally integrated by the wound fiber layers.

13. (Original) A protective ring in accordance with Claim 1, wherein both an inner and outer circumferential surface are each formed by a metal band.

14. (Original) A protective ring in accordance with Claim 13, wherein multi-stratum strips of metal bands and fiber-weave layers are joined at the ends by an adhesive to form the protective ring.

15. (Cancelled)

16. (Currently Amended) A protective ring in accordance with Claim ~~14~~15, comprising at least two penetration sleeves with matching diameters assembled into one another to obtain a specific large wall thickness.

17. (Original) A protective ring in accordance with Claim 1, wherein multi-stratum strips of metal bands and fiber-weave layers are joined at the ends by an adhesive to form the protective ring.

18. (Cancelled)

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19. (Cancelled)

20. (Original) A protective ring in accordance with Claim 1, comprising at least two penetration sleeves with matching diameters assembled into one another to obtain a specific large wall thickness.